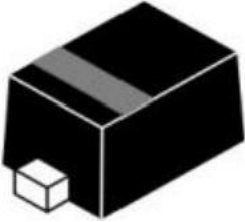




ESD	Features		
<u>SOD923</u> 	<ul style="list-style-type: none"> • Low Capacitance 0.5 pF(Typ) • Reverse stand-off voltage:5V Max • Low leakage current:nA Level • Low Clamping Voltage • Response time is typically<1 ns IEC61000-4-2 Level 4 ESD Protection		
<u>General description</u>			
<p>The ESD9L5.0 is designed to protect voltage sensitive components from ESD and transient voltage events.Excellent clamping capability,low leakage,and fast response time ,make these parts ideal for ESD protection on designs where board space is at a premium.</p>			
<u>Application information</u>			
<ul style="list-style-type: none"> <li style="width: 50%;">• 10/100/1000 Mbit/s Ethernet <li style="width: 50%;">• Portable electronics <li style="width: 50%;">• FireWire <li style="width: 50%;">• Communication systems <li style="width: 50%;">• High-speed data lines <li style="width: 50%;">• Computers and peripherals <li style="width: 50%;">• Subscriber Identity Module (SIM) card protection <li style="width: 50%;">• Audio and video equipment <li style="width: 50%;">Cellular handsets and accessories <li style="width: 50%;">• Antenna protection 			
<u>Ordering information</u>			
<u>Device</u>	<u>Package</u>	<u>Marking</u>	<u>Packaging</u>
ESD9L5.0	SOD923	D	8000/Tape&Reel

Schematic & Pin configuration

Simplified outline	Graphic symbol
	

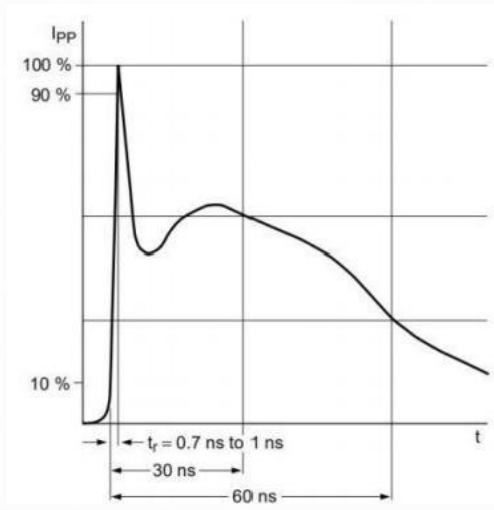
Maximum Ratings (Top=25 °C, unless otherwise specified)

Parameter	Symbo	Value	Unit
Peak Pulse Power (tp=8/20 μ s)	PpPM	60	W
Peak Pulse Current (tp=8/20 μ s)	IpPM	4	A
ESD voltage IEC 61000-4-2 (air discharge)	VESD	20	kV
ESD voltage IEC 61000-4-2 (contact discharge)	VESD	15	kV
Maximum lead temperature for soldering during 10s	TL	260	°C
Storage Temperature Range	Tstg	-55 to +150	°C
Operating Temperature Range	Top	-40 to +125	°C
Maximum junction temperature	Tj	150	°C

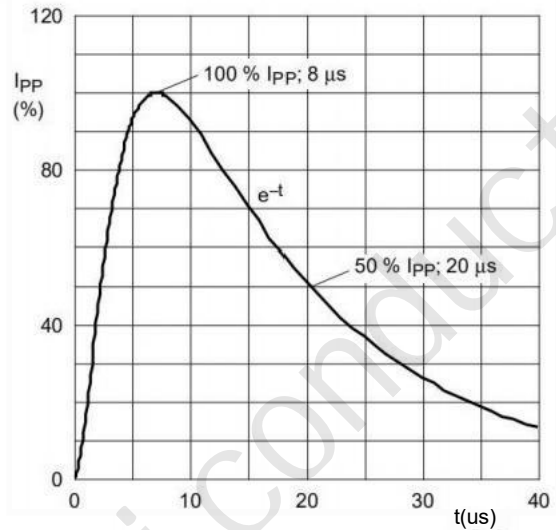
Electrical Characteristics (Top=25°C, unless otherwise specified)

Parameter	Symbo	Min	Typ	Max	Unit	Condition
Reverse Working Voltage	VRWM			5.0	V	
Breakdown Voltage	VBR	6.5		9.0	V	Ir=1mA
Leakage Current ILeak	Ik			100	nA	VRwM=5V
Clamping Voltage	Vc			15.0	V	Ipp=4A, Tp=8/20 μ s
Junction Capacitance	Cj		0.5	0.6	pF	VR=0V, f=1MHz

Typical Electrical and Thermal Characteristics (Curves)



IEC61000-4-2 Waveform



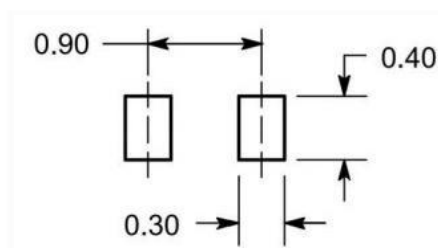
IEC 61000-4-5 Waveform(8/20μs pulse)

Package Outline Dimensions

SOD923

SYMBOL	MILLIMETERS	
	MIN	MAX
A	0.74	0.86
B	0.54	0.66
C	0.35	0.45
D	0.14	0.26
K	0.04	0.16
S	0.95	1.10

Soldering Footprint(mm)



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[P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#)